



carbogenics

CreChar® from Carbogenics
enhances the efficiency of
biogas production by up to 15%,
for a cleaner, greener world.

Carbogenics' innovative low carbon process converts low-value paper waste like take-away cups, cardboard, mixed paper into CreChar® – a carbon-rich additive that enhances the stability and efficiency of renewable biogas production by up to 15%.



Created using an environmentally friendly, high-temperature, no oxygen decomposition process called Pyrolysis, **CreChar®** is a charcoal-like product that unlocks the full potential of biogas plants.

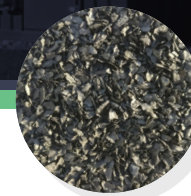
CreChar® addresses multiple issues in the biogas production process, ensuring higher efficiency, gas and digestate quality when added to the process.

CreChar® AD Additive

- > Increases the stability and efficiency of the biogas production process.
- > Improves biogas yields by up to 15%, resulting in significant revenue growth potential.
- > Tailored to individual plant requirements, to enable peak performance.
- > Sustainable alternative to energy-intense chemical fertilisers.
- > Carbon-negative.



Biogas plants convert our every day waste into renewable electricity and bio-methane gas, helping to reduce landfills and greenhouse emissions, and improving the environment for us all. CreChar® significantly improves their performance, efficiency and return potential.



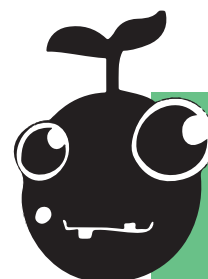
Biogas is a renewable source of energy that can be produced from organic waste, food waste, sewage sludge and farm manure. The underlying Anaerobic Digestion (AD) process to create it, relies on a very delicate balance of chemicals and micro-organisms, which often restricts the efficiency of AD plants to a fraction of their capacity.

Adding **CreChar®** to the AD process as a sustainable alternative to energy-intense chemical additives, significantly improves the efficiency, performance and profit potential of biogas production.

HOW DOES IT WORK?

CreChar® is a porous carbon additive with a unique composition of organic and mineral components that achieves three things:

- > Binds and absorbs inhibitory chemicals (ammonia, H₂S) within the process, to create more favourable AD production conditions.
- > Regulates pH buffering to better stabilise the process.
- > Provides ideal growth conditions for functional and process enhancing micro-organisms.



Visit carbogenics.com to find out what CreChar® can do for your AD plant

CreChar® is being developed and brought to market by a team of experienced scientists and business people.

Carbogenics is a multi-award winning start-up company that produces bio-functional carbon additives from sustainable resources. Our innovative products help to increase efficiencies in the Biotechnology Industry and the Environmental Field. We believe in the strengths of a Circular Economy and we support our clients to operate in a more circular and profitable way.